



Volume 3 /  
Summer 2016

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## Emissions by Contributor:

Park Operations  
6%



## 3 CLIMATE CHANGE ACTIONS:

- **REDUCE:**  
Work towards eliminating emissions from park activities
- **ADAPT:**  
Plan for and adapt to impacts of climate change
- **EDUCATE:**  
Increase climate change education and outreach

## Featured Project

# Golden Gate Updates Climate Change Action Plan

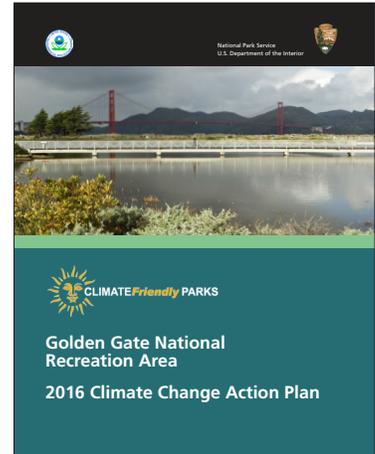
Golden Gate National Recreation Area (GGNRA) just completed an updated Climate Change Action Plan that sets a goal of carbon neutral park operations by 2020. This update from the original 2008 Action Plan outlines GGNRA's recent accomplishments and sets new goals for the park, including adapting to impacts the park may experience from a changing climate.

GGNRA has been tracking greenhouse gas (GHG) emissions resulting from activities within the park since 2008. The GHG emissions inventory was completed using the Climate Leadership in Parks (CLIP) tool.

The overall trend is that GGNRA has reduced its emissions since 2008 (with more reliable data beginning in 2009). The most progress has been made in the Energy Sector (see below), and the park will continue to take action on the sectors that now contribute the most of our carbon footprint such as transportation and waste.

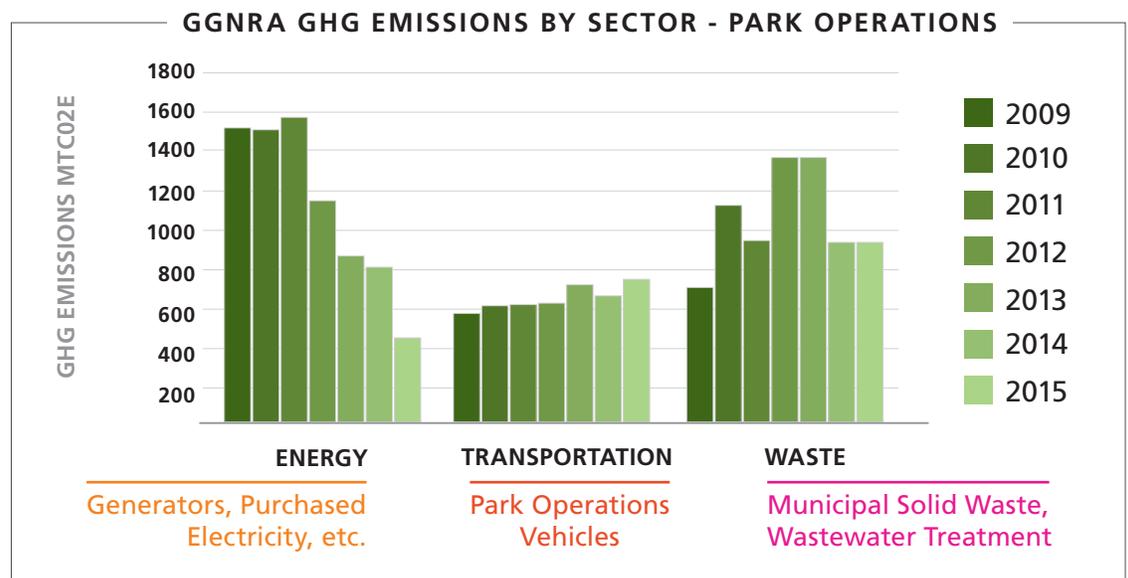
For more information:

[www.nps.gov/goga/learn/nature/climatechange.htm](http://www.nps.gov/goga/learn/nature/climatechange.htm)



## Major Goals of 2016 Action Plan:

- Reduce petroleum consumption by NPS fleet and visitor's personal occupancy vehicles
- Utilize 100% clean energy
- Promote green purchasing
- Increase adaptive capacity of ecosystems and landscapes
- Address vulnerability risks to park facilities and park operations
- Provide climate change interpretation and education





## Featured Project

### Bay Area Climate Literacy Impact Collaborative

Since 2014, the Bay Area Climate Literacy Impact Collaborative (Bay-CLIC) has been the leading regional consortium for informal educators dedicated to improving climate education and action. Bay-CLIC has a diverse membership comprised of over 30 organizations ranging from park agencies to science museums. Collectively, Bay-CLIC members reach over 3 million individuals through their educational programming, serve counties all throughout the Bay Area, offer multiple methods of climate communication like place-based school programs and visitor centers, and serve audiences representing all age groups.

Currently, Bay-CLIC’s work is centered on building connections between educators and local scientists and region-specific climate data, implementing joint campaigns to promote the social norming of sustainable behaviors, and developing a toolkit and trainings targeted to the needs of Bay Area environmental educators.

To learn more about us, please visit our website at: [instituteatgoldengate.org/](http://instituteatgoldengate.org/)



## In the Field

### GGNRA Strives for 100% Renewable Energy Use

GGNRA joined CleanPowerSF in May of 2016 in an effort to further reduce the park’s GHG emissions in the energy sector. CleanPowerSF is San Francisco’s Community Choice Aggregation program, a State program that allows cities and counties to partner with their investor-owned utility to deliver clean renewable energy to residents and businesses. GGNRA enrolled in the SuperGreen program, which supplies the park’s buildings in San Francisco with 100% California-certified renewable energy. The park has also been purchasing 100% renewable energy in Marin from MCE’s Deep Green program since 2011. Therefore, enrolling in CleanPowerSF will essentially eliminate GGNRA’s GHG emissions from purchased electricity, which accounted for 13% of the park’s total emissions in 2015.



Solar Panels at Alcatraz generate almost 50% of the annual energy usage on the island

For more Information: [Sfwater.org/index.aspx?page=959](http://Sfwater.org/index.aspx?page=959)



## Featured Project

# Park Expands Public Electric Vehicle Chargers

A grant from the California Energy Commission with match funding from Pacific Gas & Electric Co. has funded installation of new public EV chargers at Fort Mason in San Francisco and Stinson Beach in Marin County. These chargers join those that the park and the Golden Gate National Parks Conservancy have installed at Crissy Field and Muir Woods National Monument in partnership with non-profit Adopt-a-Charger.

The network of public chargers continues to grow in the San Francisco Bay Area, encouraging more drivers to adopt electric vehicles. EVs lower our use of fossil fuels by running on cleaner electricity.

To see locations of EV chargers in your area visit [Plugshare.com](https://www.plugshare.com)



Top:  
Stinson Beach  
EV Chargers

Bottom:  
Fort Mason  
EV Chargers

## In the Field

# Park employees use transit subsidy

A growing number of National Park Service employees are taking advantage of Federal subsidies that offset the costs of commuting to work on public transportation. Employees arrive at park locations such as Fort Mason, Fort Cronkhite, and Muir Woods from the far-flung corners of the Bay Area and have many transportation options at their disposal.

Some employees have banded together to join a vanpool, which is a great way to access areas that aren't well-served by public transportation. All of these efforts combine to reduce the number of vehicles on the road and lowers the carbon footprint of our employees commuting to work.



Muir Woods staff share a vanpool

For more information on the Federal subsidy see: [transerve.dot.gov/](https://transerve.dot.gov/)



## In-Depth

To learn more about GGNRA's Climate Change Action Plan — Join us for our next sustainability Tech Talk:

Tuesday Sept 20, 2016  
12:00 – 1:00PM  
Fort Mason 201  
1st Floor Conf. Room



## Golden Gate National Recreation Area

Fort Mason Building 101,  
San Francisco

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### Photo credit

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## Sustainability Outreach

### Sustainability Summit

GGNRA held its second biannual Sustainability Summit in April 2016. The event highlighted sustainability projects taking place within the San Francisco Bay Area Network of National Parks. NPS Pacific West Regional Director Laura Joss kicked things off and participated in the Summit as part of her National Parks Week activities. Benjamin Grant, a policy director at SPUR, gave the keynote address describing how urban parks are integral components of sustainable cities and are at the forefront of climate change response.

The event's lunchtime speaker was well-known author and Senior Fellow of Post Carbon Institute Richard Heinberg, who described "Our Renewable Future" based on his newest book.

NPS employees and park partners employees presented on topics ranging from water and energy conservation to solar and electric vehicle programs.



Richard Heinberg discusses "Our Renewable Future"

## Sustainability Outreach

### Sustainable Project Tours

As a follow-up to the Sustainability Summit, GGNRA organized several tours that were topics of presentations during the event.



Solar panels shade the pools at the Marine Mammal Center

The first tour was of The Marine Mammal Center where attendees were able to see the animals within the facility, including harbor seal pups! Participants were also given an extensive behind the scenes tour of the MMC's PV and water filtration systems. The second tour was of SFPUC's headquarters, which features the Living Machine, a wastewater collection and treatment system for reuse of wastewater within the building. Finally, there was the tour of the Presidio Trust Salvage Warehouse, which is home to an eclectic mix of items that are recovered for reuse in the Presidio from historic materials and army-era signage to masonry and construction materials.